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IS 14160 (1994): Simazine WP [FAD 1: Pesticides and Pesticides Residue Analysis]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

सिमाज़िन, घुलनशील पाउडर — विशिष्टि

Indian Standard

SIMAZINE WP — SPECIFICATION

UDC 632.954 SIM

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**BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110 002**

AMENDMENT NO. 1 DECEMBER 1995
TO
IS 14160 : 1994 SIMAZINE WP — SPECIFICATION

(*Foreword, paras 2 and 3*) — Substitute the following for the existing paras:

‘Simazine WP is used as a herbicide.’

‘Simazine WP is generally manufactured to contain 50 percent (*m/m*) of simazine.’

(*Page 1, clause 3.1.1*) — Substitute ‘Simazine technical’ for ‘simazine, technical’.

(FAD 1)

Reprography Unit, BIS, New Delhi, India

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Pesticides Sectional Committee had been approved by the Food and Agriculture Division Council.

Cyfluthrin WP is used as in the control of pests of household and public health importance.

Cyfluthrin WP is generally manufactured to contain 10 percent (*m/m*) cyfluthrin.

In the preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act*, 1968 and Rules framed thereunder and *Standards of Weights and Measures (Packaged Commodities) Rules*, 1977. However, this standard is subject to the restrictions imposed under these, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SIMAZINE WP — SPECIFICATION

1 SCOPE

This standard prescribes the requirements and the methods of sampling and test for simazine WP.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard

<i>IS No</i>	<i>Title</i>
1070 : 1992	Reagent grade water (<i>third revision</i>)
6940 : 1982	Method of test for pesticides and their formulations (<i>first revision</i>)
8190 (Part 1) : 1988	Requirement for packing of pesticides : Part 1 Solid pesticides (<i>second revision</i>)
10627 : 1983	Method for sampling of pesticidal formulations
14157 : 1994	Pesticide - Simazine, technical

3 REQUIREMENTS

3.1 Constituents

3.1.1 The material shall consist of simazine, technical, together with suitable carrier(s), stabilizer(s) and other formulants(s).

3.1.2 Simazine, technical employed in the formulation of this material shall conform to IS 14157 : 1994.

3.2 Description

The material shall be in the form of a fine, free flowing, white to cream coloured homogeneous powder, free of extraneous impurities or added modifying agent(s). It shall wet readily on mixing with water providing a suspension for suitable use as spray.

3.3 The material shall also comply with the requirements given in Table 1.

Table 1 Requirements for Simazine WP

Sl No. (1)	Characteristic (2)	Requirement (3)	Method of Test Ref to (4)
i)	Simazine content, percent by mass (<i>m/m</i>)	Nominal value as decalred on the container (<i>see</i> 3.4)	Annex A of IS 14157 : 1994
ii)	Sieving material passing through 75-micron, IS Sieve, percent by mass (<i>m/m</i>), <i>Min</i>	98.0	11.1 of IS 6940 : 1982
iii)	Suspensibility, percent by mass (<i>m/m</i>), <i>Min</i>	50.0	Annex A of this standard
iv)	Acidity (as H ₂ SO ₄), percent by mass (<i>m/m</i>), <i>Max</i>	0.20	11.3 of IS 6940 : 1982
OR			
	Alkalinity (as NaOH), percent by mass (<i>m/m</i>), <i>Max</i>	0.20	11.3 of IS 6940 : 1982
v)	Wettability, in seconds, <i>Max</i>	120	11.4 of IS 6940 : 1982

3.4 Simazine Content

When determined by the method prescribed in Annex A of IS 14157 : 1994, the observed simazine content percent (m/m) of any of the samples shall not differ from the declared nominal value by more than the tolerance limits given below:

Nominal Value, Percent	Tolerance Limits, Percent	
Up to 9	+10 - 5	} of the nominal value
Above 9 and below 50	± 5	
50 and above	+ 5 - 3	

4 PACKING

The material shall be packed in mild steel/tin plate/fibre board containers lined with LDPE of thickness not less than 0.062 mm. In addition, the general packing requirements as given in IS 8190 (Part 1):1988 shall also be followed.

5 MARKING

5.1 The containers shall be securely closed and shall bear legibly and indelibly the following information and any other information as is necessary under the *Insecticides Act, 1968* and Rules framed thereunder.

- Name of the material;
- Name of the manufacturer;
- Batch number;
- Date of manufacture;
- Date of expiry;
- Net mass of the contents;
- Simazine content percent (m/m);

- Cautionary notice worded as in the *Insecticides Act, 1968* and Rules; and
- Any other information(s) required under the *Standards of Weights and Measures (Packaged Commodities) Rules, 1977*.

5.2 BIS Certification Marking

The product may also be marked with Standard Mark.

5.2.2 The use of the Standard Mark is governed by the provisions of Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

6 SAMPLING

When freshly manufactured material is offered for inspection, representative samples shall be drawn and tested as prescribed in IS 10627:1983, within 90 days of its manufacturing. When the material is offered for inspection after 90 days of its manufacturing, sampling shall be done as prescribed in IS 10627:1983. However, the criteria for conformity of the material when tested, shall be the limits of tolerances, as applicable over the declared nominal value and given under 3.4 of this standard.

7 TESTS

7.1 Tests shall be carried out by the appropriate methods referred to in 3.3, 3.4 and col 4 of Table 1.

7.2 Quality of Reagents

Unless specified otherwise, pure chemical and distilled water (see IS 1070 : 1992) shall be employed in tests.

NOTE - 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

ANNEX A

[Clause 3.3; and Table 1, Item (iii)]

DETERMINATION OF SUSPENSIBILITY

A-1 PROCEDURE

A-1.1 Weigh out accurately in a 100 ml beaker an amount of sample to form a suspension containing 0.5 percent (m/v) of simazine. Proceed as described in 11.2 of IS 6940 : 1982.

A-1.2 Transfer quantitatively the remaining 25 ml portion of suspension and sediment into 250 ml Erlenmeyer flask and proceed as described in IS 14157 : 1994.

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